



March 27, 2012

Brad Davis
Zia Engineering & Environmental
755 S Telshor Blvd Ste F-201
Las Cruces, NM 88011
TEL: (575) 993-6824
FAX (575) 532-1587
RE: HELSFT Chromium Spill

Order No.: 1203126

Dear Brad Davis:

DHL Analytical received 6 sample(s) on 3/14/2012 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "John DuPont".

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory
Certification Number: T104704211-11-7 & DoD ELAP #ADE-1416 v2



Table of Contents

Miscellaneous Documents	3
CaseNarrative 1203126	11
WorkOrderSampleSummary 1203126	13
PrepDatesReport 1203126	14
AnalyticalDatesReport 1203126	16
Analytical Report 1203126	18
AnalyticalQCSummaryReport 1203126	34
Sequence Report 1203126	56
Miscellaneous 1203126	60

765 S. Teftor Blvd. Ste. F-201
 Las Cruces, NM 88011
 575-532-1526 u
 575-532-1587 f

#120312e

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.		PROJECT NAME		NO. OF CONTAINERS	ANALYSIS REQUESTED						REMARKS	
		HELSTF Chromium Spill			TOC	VOCs	DRC	Hexavalent Chromium	pH	Total Chromium		
SAMPLER'S SIGNATURE	<i>Bradley T. Davis</i>											
DATE	TIME	SAMPLE ID	MATRIX	LAB NO.								
01 02 03 04	3-13-12 3-13-12 3-13-12 3-13-12	1050 1050 1140 1300	HLSF-0143-HMW-TB-1-0312 HLSF-0143-HMW-041-0312 HLSF-0143-HMW-040-0312 HLSF-0143-HMW-011-0312	Water Water Water Water	2 10 10 10	X X X X X X X X X X X X X X X X X X						
PROJECT INFORMATION		SAMPLE RECEIVED	1. RELINQUISHED BY: (SIG NATURE)		2. RELINQUISHED BY: (SIG NATURE)		3. RECEIVED BY LAB: (SIG NATURE)					
PROJECT MANAGER		TOTAL NO. OF CONTAINERS	(PRINTED NAME) <i>Bradley T. Davis</i> 3-13-12		(PRINTED NAME) <i>J. Davis</i> 3/14/12 1000		(PRINTED NAME)					
Brad Davis		CHAIN OF CUSTODY SEALS	(TIME/DATE) <i>J. Davis</i> 3/13/12 1200		(TIME/DATE) <i>J. Davis</i> 3/13/12 1200		(COMPANY)					
SHIPPING ID NO.		GOOD CONDITION CHILLED	(TIME/DATE) <i>J. Davis</i> 3/13/12 1200		(TIME/DATE) <i>J. Davis</i> 3/14/12 1000		(TIME/DATE)					
FedEX		CONFORMS TO RECORD	SPECIAL INSTRUCTIONS / COMMENTS:									



155 S. Tebbs Dr. Bldg. Ste. F-201
Las Cruces, NM 88011
575-532-1526 u
575-532-1581 f

CHAIN OF CUSTODY RECORD

#1203124

PAGE OF

PROJECT INFORMATION	SAMPLES RECEIVED	1. RELINQUISHED BY: (SIG/NATURE) <i>Bradley T. Davis</i> (PRINTED NAME) <i>3-13-12</i>	2. RELINQUISHED BY: (SIG/NATURE) <i>Jedry</i> (PRINTED NAME) <i>3/14/12 1005</i>	3. RECEIVED BY LAB: (SIG/NATURE)
PROJECT MANAGER <i>Brad Davis</i>	TOTAL NO. OF CONTAINERS	RECEIVED BY: (SIG/NATURE) <i>Bradley T. Davis 1700</i> (PRINTED NAME)	RECEIVED BY: (SIG/NATURE) <i>Jedry</i> (PRINTED NAME)	(COMPANY)
SHIPPING ID NO.	CHAIN OF CUSTODY/SEALS <i>Yes</i>	TIME/DATE <i>8/13/12 1700</i>	TIME/DATE <i>8/14/12 1005</i>	TIME/DATE
VIA: <i>Fed EX</i>	GOOD CONDITION/CILLED <i>Spun#5</i>	SPECIAL INSTRUCTIONS/COMMENTS: <i>CONFORMS TO RECORD</i>		

FedEx NEW Package
Express US Airbill

FedEx
Tracking
Number

8757 1476 4072

1 From Date 3-13-12 [REDACTED]

Sender's Name Brad Davis Phone 575 532-1536

Company Zia Engineering

Address 755 S. Taos St.

City Las Cruces State NM ZIP 88011

2 Your Internal Billing Reference

3 To Recipient's Name John Dupont Phone 512 388-8222

Company DHL Analytical

Address 2300 Double Creek Dr.

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

HOLD Weekly FedEx location address REQUIRED. Not available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address Use this line for the HOLD location address or for continuation of your shipping address.

City Round Rock State TX ZIP 78664



8757 1476 4072



Form No. 0200	Recipient's City		
4 Express Package Service * To most locations. NOTE: Service order has changed. Please select carefully.			
Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.			
Next Business Day			
<input type="checkbox"/> FedEx First Overnight Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.			
<input checked="" type="checkbox"/> FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.			
<input type="checkbox"/> FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.			
2 or 3 Business Days			
<input type="checkbox"/> NEW FedEx 2Day A.M. Second business morning.* Saturday Delivery NOT available.			
<input type="checkbox"/> FedEx 2Day Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.			
<input type="checkbox"/> FedEx Express Saver Third business day. Saturday Delivery NOT available.			
5 Packaging * Declared value limit \$500.			
<input type="checkbox"/> FedEx Envelope* <input type="checkbox"/> FedEx Pak* <input type="checkbox"/> FedEx Box <input type="checkbox"/> FedEx Tube <input checked="" type="checkbox"/> Other			
6 Special Handling and Delivery Signature Options			
<input type="checkbox"/> SATURDAY Delivery <small>Not available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.</small>			
<input type="checkbox"/> No Signature Required <small>Package may be left without obtaining a signature for delivery.</small>			
<input type="checkbox"/> Direct Signature <small>Someone at recipient's address may sign for delivery. Fee applies.</small>			
<input type="checkbox"/> Indirect Signature <small>If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.</small>			
Does this shipment contain dangerous goods?			
<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <small>One box must be checked.</small>			
<input type="checkbox"/> As per attached Shipper's Declaration. <input type="checkbox"/> Shipper's Declaration not required.			
<small>Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.</small>			
<input type="checkbox"/> Dry Ice <small>Dry Ice, 9 UN 1845 _____ kg</small> <input type="checkbox"/> Cargo Aircraft Only			
7 Payment Bill to:			
<small>Enter FedEx Acct. No. or Credit Card No. below.</small>			
<small>Acct. No. in Section 1 will be billed.</small>			
<input type="checkbox"/> Sender <input type="checkbox"/> Recipient <input type="checkbox"/> Third Party <input type="checkbox"/> Credit Card <input type="checkbox"/> Cash/Check			
Total Packages	Total Weight	Total Declared Value ¹	Credit Card Auth.

1 Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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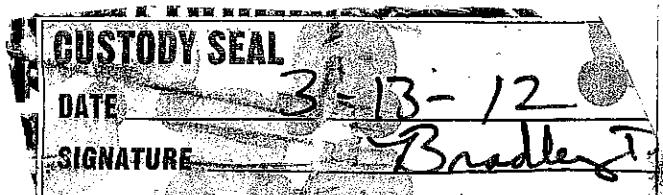


From: (505) 332-1526 Zia Engineering 755 S. Telser Blvd. Suite Q-201 Las Cruces, NM 88011	Origin ID: LRUA  SHIP TO: (312) 331-9227 John Dupont DHL Analytical 2300 DOUBLE CREEK DR ROUND ROCK, TX 78664	Ship Date: 12MAR12 ActWgt: 55.0 LB CAD: 1022816410NET3250 Delivery Address Bar Code  Ref #: LCS-09-015/BG J3 Invoice # PO # Dept #
		Label 2 of 2 2 of 2 WED - 14 MAR A1 HPS# 7981 6540 3373 PRIORITY OVERNIGHT 0263 Mstr# 7981 6540 3454 0201 XH BSMA 

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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DHL Analytical

Sample Receipt Checklist

Client Name Zia Engineering & Environmental

Date Received: 3/14/2012

Work Order Number 1203126

Received by JB

Checklist completed by:



Signature

3/14/2012

Date

Reviewed by



Initials

3/14/2012

Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	2.7 °C <i>~31</i>
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Adjusted?

No

Checked by



Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: HELSFT Chromium Spill		Date: 3/27/2012					
Reviewer Name: Angie O'Donnell		Laboratory Work Order: 1203126					
Prep Batch Number(s): See Prep Dates Report		Run Batch: See Analytical Dates Report					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-Custody (C-O-C) 1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? 2) Were all departures from standard conditions described in an exception report?	X				R1-01
R2	OI	Sample and Quality Control (QC) Identification 1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers? 2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test Reports 1) Were all samples prepared and analyzed within holding times? 2) Other than those results < MQL, were all other raw values bracketed by calibration standards? 3) Were calculations checked by a peer or supervisor? 4) Were all analyte identifications checked by a peer or supervisor? 5) Were sample quantitation limits reported for all analytes not detected? 6) Were all results for soil and sediment samples reported on a dry weight basis? 7) Were % moisture (or solids) reported for all soil and sediment samples? 8) If required for the project, TICs reported?	X				
R4	O	Surrogate Recovery Data 1) Were surrogates added prior to extraction? 2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test Reports/Summary Forms for Blank Samples 1) Were appropriate type(s) of blanks analyzed? 2) Were blanks analyzed at the appropriate frequency? 3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? 4) Were blank concentrations < MQL?	X				
R6	OI	Laboratory Control Samples (LCS): 1) Were all COCs included in the LCS? 2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? 3) Were LCSs analyzed at the required frequency? 4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? 5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs? 6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data 1) Were the project/method specified analytes included in the MS and MSD? 2) Were MS/MSD analyzed at the appropriate frequency? 3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? 4) Were MS/MSD RPDs within laboratory QC limits?	X		X		R7-03
R8	OI	Analytical Duplicate Data 1) Were appropriate analytical duplicates analyzed for each matrix? 2) Were analytical duplicates analyzed at the appropriate frequency? 3) Were RPDs or relative standard deviations within the laboratory QC limits?	X		X		
R9	OI	Method Quantitation Limits (MQLs): 1) Are the MQLs for each method analyte included in the laboratory data package? 2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? 3) Are unadjusted MQLs included in the laboratory data package?	X		X		
R10	OI	Other Problems/Anomalies 1) Are all known problems/anomalies/special conditions noted in this LRC and ER? 2) Were all necessary corrective actions performed for the reported data? 3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X		X		

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: HELSFT Chromium Spill		Date: 3/27/2012				
Reviewer Name: Angie O'Donnell		Laboratory Work Order: 1203126				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴
S1	OI	Initial Calibration (ICAL)				
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X			
		2) Were percent RSDs or correlation coefficient criteria met?	X			
		3) Was the number of standards recommended in the method used for all analytes?	X			
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X			
		5) Are ICAL data available for all instruments used?	X			
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X			S1-06
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB)				
		1) Was the CCV analyzed at the method-required frequency?	X			
		2) Were percent differences for each analyte within the method-required QC limits?		X		S2-02
		3) Was the ICAL curve verified for each analyte?	X			
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X			
S3	O	Mass Spectral Tuning				
		1) Was the appropriate compound for the method used for tuning?	X			
		2) Were ion abundance data within the method-required QC limits?	X			
S4	O	Internal Standards (IS)				
		1) Were IS area counts and retention times within the method-required QC limits?	X			
S5	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12)				
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X			
		2) Were data associated with manual integrations flagged on the raw data?	X			S5-02
S6	O	Dual Column Confirmation				
		1) Did dual column confirmation results meet the method-required QC?			X	
S7	O	Tentatively Identified Compounds (TICs)				
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X	
S8	I	Interference Check Sample (ICS) Results				
		1) Were percent recoveries within method QC limits?	X			
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions				
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X			
S10	OI	Method Detection Limit (MDL) Studies				
		1) Was a MDL study performed for each reported analyte?	X			
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X			
S11	OI	Proficiency Test Reports				
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X			
S12	OI	Standards Documentation				
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X			
S13	OI	Compound/Analyte Identification Procedures				
		1) Are the procedures for compound/analyte identification documented?	X			
S14	OI	Demonstration of Analyst Competency (DOC)				
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X			
		2) Is documentation of the analyst's competency up-to-date and on file?	X			
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)				
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X			
S16	OI	Laboratory Standard Operating Procedures (SOPs)				
		1) Are laboratory SOPs current and on file for each method performed?	X			

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

John DuPont – General Manager

Scott Schroeder – Technical Director



Signature

03/27/12

Date

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Lab Order: 1203126

CASE NARRATIVE

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC.

Method SW6020 - Metals Analysis
Method M8015D - DRO Analysis
Method SW8260C - Volatile Organic
Method M4500-H+ B - pH of a Water
Method M5310C - TOC Analysis
Method SW7196A - Hexavalent Chromium - Water (Trivalent Chromium is not NELAC Certified)

Exception Report R1-01

The samples were received and log-in performed on 3/14/2012. A total of 6 samples were received and analyzed. The samples arrived in good condition and were properly packaged. The samples were collected on Mountain Standard Time.

Exception Report R7-03

For Volatiles Analysis, the recovery of 2-Chloroethylvinylether for the Matrix Spike and Matrix Spike Duplicate (1203126-05 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary report. This compound is within method control limits in the associated LCS. The reference sample selected for the QC sample was from this workorder. No further corrective action was taken.

Exception Report S1-06

For Volatiles analysis, the recovery of Dichlorodifluoromethane for the Second Source Calibration Verification is above the method control limits. The associated samples are nondetect for this compound. No further corrective action was taken.

Exception Report S2-02

For Volatiles Analysis, the recoveries of two compounds for the Initial Calibration Verification (ICV-120319) were slightly above the method control limits. These are flagged accordingly in the QC Summary report. These compounds are within method control limits in the associated LCS. No further corrective action was taken.

Exception Report S5-02

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Lab Order: 1203126

CASE NARRATIVE

For Volatile Analysis, some samples and/or standards were manually integrated. Please refer to the manual integration tables after the sequence reports for the full list of samples, standards, and the compounds that were manually integrated.

A summary of project communication follows:

DHL Analytical received the Project RFQ from the client on 12/29/09. Completed RFQ returned to client via email on 1/07/2010. Purchase Order/Terms and Conditions received and signed and approved by both parties on 01/25/2010.

Brad Davis of Zia requested a bottle kit via email from Jennifer Barker of DHL on 2/16/2012. A DHL BottleKit #3137 sent on 2/20/2012 via Lonestar Overnight, to arrive by 2/22/2012.

This sample delivery group arrived at DHL Analytical 3/14/2012. Sample summary sent via email from Log-in to client on 3/14/2012.

All hardcopies for the sample kit request, bill of lading for sample kit sent and login summary are kept in project folder.

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Lab Order: 1203126

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1203126-01	HLSF-0143-HMW-TB-1-0312		03/13/12 10:50 AM	3/14/2012
1203126-02	HLSF-0143-HMW-041-0312		03/13/12 10:50 AM	3/14/2012
1203126-03	HLSF-0143-HMW-040-0312		03/13/12 11:40 AM	3/14/2012
1203126-04	HLSF-0143-HMW-011-0312		03/13/12 01:00 PM	3/14/2012
1203126-05	HLSF-0143-HMW-043-0312		03/13/12 02:05 PM	3/14/2012
1203126-06	HLSF-0143-HMW-TB-2-0312		03/13/12 02:05 PM	3/14/2012

Lab Order: 1203126
Client: Zia Engineering & Environmental
Project: HELSFT Chromium Spill

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1203126-01A	HLSF-0143-HMW-TB-1-0312	03/13/12 10:50 AM	Trip Blank	SW5030C	Purge and Trap Water GC/MS	03/19/12 09:09 AM	51020
1203126-02A	HLSF-0143-HMW-041-0312	03/13/12 10:50 AM	Aqueous	SW5030C	Purge and Trap Water GC/MS	03/19/12 09:09 AM	51020
1203126-02B	HLSF-0143-HMW-041-0312	03/13/12 10:50 AM	Aqueous	M5310C	TOC prep Aqueous	03/21/12 08:30 AM	51063
1203126-02C	HLSF-0143-HMW-041-0312	03/13/12 10:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/21/12 08:48 AM	51062
1203126-02D	HLSF-0143-HMW-041-0312	03/13/12 10:50 AM	Aqueous	SW7196A	Hexachrom Prep Water	03/14/12 10:43 AM	50943
	HLSF-0143-HMW-041-0312	03/13/12 10:50 AM	Aqueous	M4500-H+ B	pH Preparation	03/14/12 09:30 AM	50947
1203126-02E	HLSF-0143-HMW-041-0312	03/13/12 10:50 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	03/14/12 11:39 AM	50939
1203126-03A	HLSF-0143-HMW-040-0312	03/13/12 11:40 AM	Aqueous	SW5030C	Purge and Trap Water GC/MS	03/19/12 09:09 AM	51020
1203126-03B	HLSF-0143-HMW-040-0312	03/13/12 11:40 AM	Aqueous	M5310C	TOC prep Aqueous	03/21/12 08:30 AM	51063
1203126-03C	HLSF-0143-HMW-040-0312	03/13/12 11:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/21/12 08:48 AM	51062
	HLSF-0143-HMW-040-0312	03/13/12 11:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/21/12 08:48 AM	51062
1203126-03D	HLSF-0143-HMW-040-0312	03/13/12 11:40 AM	Aqueous	SW7196A	Hexachrom Prep Water	03/14/12 10:43 AM	50943
	HLSF-0143-HMW-040-0312	03/13/12 11:40 AM	Aqueous	M4500-H+ B	pH Preparation	03/14/12 09:30 AM	50947
1203126-03E	HLSF-0143-HMW-040-0312	03/13/12 11:40 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	03/14/12 11:39 AM	50939
1203126-04A	HLSF-0143-HMW-011-0312	03/13/12 01:00 PM	Aqueous	SW5030C	Purge and Trap Water GC/MS	03/19/12 09:09 AM	51020
1203126-04B	HLSF-0143-HMW-011-0312	03/13/12 01:00 PM	Aqueous	M5310C	TOC prep Aqueous	03/21/12 08:30 AM	51063
1203126-04C	HLSF-0143-HMW-011-0312	03/13/12 01:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/21/12 08:48 AM	51062
1203126-04D	HLSF-0143-HMW-011-0312	03/13/12 01:00 PM	Aqueous	SW7196A	Hexachrom Prep Water	03/14/12 10:43 AM	50943
	HLSF-0143-HMW-011-0312	03/13/12 01:00 PM	Aqueous	M4500-H+ B	pH Preparation	03/14/12 09:30 AM	50947
1203126-04E	HLSF-0143-HMW-011-0312	03/13/12 01:00 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	03/14/12 11:39 AM	50939

Lab Order: 1203126
Client: Zia Engineering & Environmental
Project: HELSFT Chromium Spill

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1203126-05A	HLSF-0143-HMW-043-0312	03/13/12 02:05 PM	Aqueous	SW5030C	Purge and Trap Water GC/MS	03/19/12 09:09 AM	51020
1203126-05B	HLSF-0143-HMW-043-0312	03/13/12 02:05 PM	Aqueous	M5310C	TOC prep Aqueous	03/21/12 08:30 AM	51063
1203126-05C	HLSF-0143-HMW-043-0312	03/13/12 02:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/21/12 08:48 AM	51062
1203126-05D	HLSF-0143-HMW-043-0312	03/13/12 02:05 PM	Aqueous	SW7196A	Hexachrom Prep Water	03/14/12 10:43 AM	50943
	HLSF-0143-HMW-043-0312	03/13/12 02:05 PM	Aqueous	M4500-H+ B	pH Preparation	03/14/12 09:30 AM	50947
1203126-05E	HLSF-0143-HMW-043-0312	03/13/12 02:05 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	03/14/12 11:39 AM	50939
1203126-06A	HLSF-0143-HMW-TB-2-0312	03/13/12 02:05 PM	Trip Blank	SW5030C	Purge and Trap Water GC/MS	03/19/12 09:09 AM	51020

Lab Order: 1203126
Client: Zia Engineering & Environmental
Project: HELSFT Chromium Spill

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1203126-01A	HLSF-0143-HMW-TB-1-0312	Trip Blank	SW8260C	8260 Water Volatiles by GC/MS	51020	1	03/19/12 05:13 PM	GCMS7_120319A
1203126-02A	HLSF-0143-HMW-041-0312	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	51020	1	03/19/12 05:37 PM	GCMS7_120319A
1203126-02B	HLSF-0143-HMW-041-0312	Aqueous	M5310C	Total Organic Carbon	51063	1	03/21/12 10:56 AM	TOC_120321A
1203126-02C	HLSF-0143-HMW-041-0312	Aqueous	SW6020	Trace Metals: ICP-MS - Water	51062	1	03/23/12 02:34 PM	ICP-MS3_120323B
1203126-02D	HLSF-0143-HMW-041-0312	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	50943	1	03/14/12 11:22 AM	UV/VIS_2_120314A
	HLSF-0143-HMW-041-0312	Aqueous	M4500-H+ B	pH	50947	1	03/14/12 10:09 AM	TITRATOR_120314A
1203126-02E	HLSF-0143-HMW-041-0312	Aqueous	M8015D	TPH Extractable by GC - Water	50939	1	03/18/12 11:58 AM	GC15_120318A
1203126-03A	HLSF-0143-HMW-040-0312	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	51020	1	03/19/12 06:02 PM	GCMS7_120319A
1203126-03B	HLSF-0143-HMW-040-0312	Aqueous	M5310C	Total Organic Carbon	51063	1	03/21/12 11:19 AM	TOC_120321A
1203126-03C	HLSF-0143-HMW-040-0312	Aqueous	SW6020	Trace Metals: ICP-MS - Water	51062	1	03/23/12 03:24 PM	ICP-MS3_120323B
	HLSF-0143-HMW-040-0312	Aqueous	SW6020	Trace Metals: ICP-MS - Water	51062	1	03/26/12 03:05 PM	ICP-MS3_120326A
1203126-03D	HLSF-0143-HMW-040-0312	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	50943	1	03/14/12 11:22 AM	UV/VIS_2_120314A
	HLSF-0143-HMW-040-0312	Aqueous	M4500-H+ B	pH	50947	1	03/14/12 10:12 AM	TITRATOR_120314A
1203126-03E	HLSF-0143-HMW-040-0312	Aqueous	M8015D	TPH Extractable by GC - Water	50939	1	03/18/12 12:07 PM	GC15_120318A
1203126-04A	HLSF-0143-HMW-011-0312	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	51020	1	03/19/12 06:27 PM	GCMS7_120319A
1203126-04B	HLSF-0143-HMW-011-0312	Aqueous	M5310C	Total Organic Carbon	51063	1	03/21/12 11:43 AM	TOC_120321A
1203126-04C	HLSF-0143-HMW-011-0312	Aqueous	SW6020	Trace Metals: ICP-MS - Water	51062	1	03/23/12 02:45 PM	ICP-MS3_120323B
1203126-04D	HLSF-0143-HMW-011-0312	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	50943	1	03/14/12 11:22 AM	UV/VIS_2_120314A
	HLSF-0143-HMW-011-0312	Aqueous	M4500-H+ B	pH	50947	1	03/14/12 10:14 AM	TITRATOR_120314A
1203126-04E	HLSF-0143-HMW-011-0312	Aqueous	M8015D	TPH Extractable by GC - Water	50939	1	03/18/12 12:16 PM	GC15_120318A

Lab Order: 1203126
Client: Zia Engineering & Environmental
Project: HELSFT Chromium Spill

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1203126-05A	HLSF-0143-HMW-043-0312	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	51020	1	03/19/12 10:41 AM	GCMS7_120319A
1203126-05B	HLSF-0143-HMW-043-0312	Aqueous	M5310C	Total Organic Carbon	51063	1	03/21/12 12:03 PM	TOC_120321A
1203126-05C	HLSF-0143-HMW-043-0312	Aqueous	SW6020	Trace Metals: ICP-MS - Water	51062	1	03/23/12 02:23 PM	ICP-MS3_120323B
1203126-05D	HLSF-0143-HMW-043-0312	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	50943	1	03/14/12 11:22 AM	UV/VIS_2_120314A
	HLSF-0143-HMW-043-0312	Aqueous	M4500-H+ B	pH	50947	1	03/14/12 10:18 AM	TITRATOR_120314A
1203126-05E	HLSF-0143-HMW-043-0312	Aqueous	M8015D	TPH Extractable by GC - Water	50939	1	03/18/12 12:24 PM	GC15_120318A
1203126-06A	HLSF-0143-HMW-TB-2-0312	Trip Blank	SW8260C	8260 Water Volatiles by GC/MS	51020	1	03/19/12 06:51 PM	GCMS7_120319A

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-TB-1-0312
Lab ID: 1203126-01
Collection Date: 03/13/12 10:50 AM
Matrix: TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS							
		SW8260C					Analyst: KL
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 05:13 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 05:13 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 05:13 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/19/12 05:13 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 05:13 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/19/12 05:13 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 05:13 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 05:13 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 05:13 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 05:13 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 05:13 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/19/12 05:13 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 05:13 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

Page 1 of 16

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-TB-1-0312
Lab ID: 1203126-01
Collection Date: 03/13/12 10:50 AM
Matrix: TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS							
		SW8260C					Analyst: KL
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 05:13 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 05:13 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/19/12 05:13 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:13 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 05:13 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 05:13 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 05:13 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:13 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/19/12 05:13 PM
Surr: 1,2-Dichloroethane-d4	104	0	70-120	%REC	1	03/19/12 05:13 PM	
Surr: 4-Bromofluorobenzene	106	0	75-120	%REC	1	03/19/12 05:13 PM	
Surr: Dibromofluoromethane	102	0	85-115	%REC	1	03/19/12 05:13 PM	
Surr: Toluene-d8	98.7	0	85-120	%REC	1	03/19/12 05:13 PM	

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

Page 2 of 16

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-041-0312
Lab ID: 1203126-02
Collection Date: 03/13/12 10:50 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER							
TPH-DRO C10-C28	0.0623	0.0500	0.100	J	mg/L	1	03/18/12 11:58 AM
Surr: Isopropylbenzene	49.3	0	47-142	%REC	%REC	1	03/18/12 11:58 AM
Surr: Octacosane	86.4	0	51-124	%REC	%REC	1	03/18/12 11:58 AM
TRACE METALS: ICP-MS - WATER							
Chromium	0.422	0.00200	0.00600		mg/L	1	03/23/12 02:34 PM
8260 WATER VOLATILES BY GC/MS							
		SW8260C					Analyst: KL
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
1,1-Dichloroethane	0.000380	0.000200	0.00100	J	mg/L	1	03/19/12 05:37 PM
1,1-Dichloroethene	0.00241	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 05:37 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 05:37 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 05:37 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/19/12 05:37 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 05:37 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/19/12 05:37 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 05:37 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 05:37 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 05:37 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 05:37 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 05:37 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/19/12 05:37 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

Page 3 of 16

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-041-0312
Lab ID: 1203126-02
Collection Date: 03/13/12 10:50 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS							
				SW8260C			Analyst: KL
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 05:37 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
Chloroform	0.000680	0.000300	0.00100	J	mg/L	1	03/19/12 05:37 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 05:37 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 05:37 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/19/12 05:37 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 05:37 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 05:37 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 05:37 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
Trichloroethene	0.0711	0.000600	0.00200		mg/L	1	03/19/12 05:37 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 05:37 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/19/12 05:37 PM
Surr: 1,2-Dichloroethane-d4	106	0	70-120	%REC	1		03/19/12 05:37 PM
Surr: 4-Bromofluorobenzene	105	0	75-120	%REC	1		03/19/12 05:37 PM
Surr: Dibromofluoromethane	103	0	85-115	%REC	1		03/19/12 05:37 PM
Surr: Toluene-d8	93.0	0	85-120	%REC	1		03/19/12 05:37 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-041-0312
Lab ID: 1203126-02
Collection Date: 03/13/12 10:50 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM-WATER							
Hexavalent Chromium	0.468	0.00800	0.0100		mg/L	1	03/14/12 11:22 AM
Trivalent Chromium	<0.00200	0.00200	0.00600	N	mg/L	1	03/14/12 11:22 AM
PH							
pH	7.52	0	0		pH Units	1	03/14/12 10:09 AM
TOTAL ORGANIC CARBON							
Total Organic Carbon	1.46	0.300	1.00		mg/L	1	03/21/12 10:56 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

Page 5 of 16

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-040-0312
Lab ID: 1203126-03
Collection Date: 03/13/12 11:40 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER							
TPH-DRO C10-C28	0.0705	0.0500	0.100	J	mg/L	1	03/18/12 12:07 PM
Surr: Isopropylbenzene	50.5	0	47-142	%REC	%REC	1	03/18/12 12:07 PM
Surr: Octacosane	88.3	0	51-124	%REC	%REC	1	03/18/12 12:07 PM
TRACE METALS: ICP-MS - WATER							
Chromium	0.00353	0.00200	0.00600	J	mg/L	1	03/26/12 03:05 PM
8260 WATER VOLATILES BY GC/MS							
SW8260C							
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 06:02 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 06:02 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 06:02 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/19/12 06:02 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 06:02 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/19/12 06:02 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:02 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:02 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:02 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:02 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:02 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/19/12 06:02 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

Page 6 of 16

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-040-0312
Lab ID: 1203126-03
Collection Date: 03/13/12 11:40 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS							
				SW8260C			Analyst: KL
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:02 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:02 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 06:02 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/19/12 06:02 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:02 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 06:02 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 06:02 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 06:02 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:02 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/19/12 06:02 PM
Surr: 1,2-Dichloroethane-d4	104	0	70-120	%REC	1	03/19/12 06:02 PM	
Surr: 4-Bromofluorobenzene	106	0	75-120	%REC	1	03/19/12 06:02 PM	
Surr: Dibromofluoromethane	99.4	0	85-115	%REC	1	03/19/12 06:02 PM	
Surr: Toluene-d8	99.4	0	85-120	%REC	1	03/19/12 06:02 PM	

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

Page 7 of 16

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-040-0312
Lab ID: 1203126-03
Collection Date: 03/13/12 11:40 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM-WATER							
Hexavalent Chromium	<0.00800	0.00800	0.0100		mg/L	1	03/14/12 11:22 AM
Trivalent Chromium	0.00353	0.00200	0.00600	N	mg/L	1	03/14/12 11:22 AM
PH							
pH	7.57	0	0		pH Units	1	03/14/12 10:12 AM
TOTAL ORGANIC CARBON							
Total Organic Carbon	1.40	0.300	1.00		mg/L	1	03/21/12 11:19 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

Page 8 of 16

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-011-0312
Lab ID: 1203126-04
Collection Date: 03/13/12 01:00 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER							
TPH-DRO C10-C28	0.0634	0.0500	0.100	J	mg/L	1	03/18/12 12:16 PM
Surr: Isopropylbenzene	48.9	0	47-142	%REC	%REC	1	03/18/12 12:16 PM
Surr: Octacosane	92.0	0	51-124	%REC	%REC	1	03/18/12 12:16 PM
TRACE METALS: ICP-MS - WATER							
Chromium	0.0793	0.00200	0.00600		mg/L	1	03/23/12 02:45 PM
8260 WATER VOLATILES BY GC/MS							
				SW8260C			Analyst: KL
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
1,1-Dichloroethane	0.000860	0.000200	0.00100	J	mg/L	1	03/19/12 06:27 PM
1,1-Dichloroethene	0.000520	0.000200	0.00100	J	mg/L	1	03/19/12 06:27 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 06:27 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 06:27 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 06:27 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/19/12 06:27 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 06:27 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/19/12 06:27 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:27 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:27 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:27 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:27 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:27 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/19/12 06:27 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

Page 9 of 16

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-011-0312
Lab ID: 1203126-04
Collection Date: 03/13/12 01:00 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS							
				SW8260C			Analyst: KL
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:27 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
Chloroform	0.000310	0.000300	0.00100	J	mg/L	1	03/19/12 06:27 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:27 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 06:27 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/19/12 06:27 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:27 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 06:27 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 06:27 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
Trichloroethene	0.0156	0.000600	0.00200		mg/L	1	03/19/12 06:27 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:27 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/19/12 06:27 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-120	%REC	1		03/19/12 06:27 PM
Surr: 4-Bromofluorobenzene	106	0	75-120	%REC	1		03/19/12 06:27 PM
Surr: Dibromofluoromethane	101	0	85-115	%REC	1		03/19/12 06:27 PM
Surr: Toluene-d8	98.9	0	85-120	%REC	1		03/19/12 06:27 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-011-0312
Lab ID: 1203126-04
Collection Date: 03/13/12 01:00 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM-WATER							
Hexavalent Chromium	0.0831	0.00800	0.0100		mg/L	1	03/14/12 11:22 AM
Trivalent Chromium	<0.00200	0.00200	0.00600	N	mg/L	1	03/14/12 11:22 AM
PH							
pH	7.54	0	0		pH Units	1	03/14/12 10:14 AM
TOTAL ORGANIC CARBON							
Total Organic Carbon	1.19	0.300	1.00		mg/L	1	03/21/12 11:43 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits Page 11 of 16

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-043-0312
Lab ID: 1203126-05
Collection Date: 03/13/12 02:05 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER							
TPH-DRO C10-C28	0.0552	0.0500	0.100	J	mg/L	1	03/18/12 12:24 PM
Surr: Isopropylbenzene	51.0	0	47-142	%REC	%REC	1	03/18/12 12:24 PM
Surr: Octacosane	93.7	0	51-124	%REC	%REC	1	03/18/12 12:24 PM
TRACE METALS: ICP-MS - WATER							
Chromium	0.00778	0.00200	0.00600		mg/L	1	03/23/12 02:23 PM
8260 WATER VOLATILES BY GC/MS							
				SW8260C			Analyst: KL
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 10:41 AM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 10:41 AM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 10:41 AM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/19/12 10:41 AM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 10:41 AM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/19/12 10:41 AM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 10:41 AM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 10:41 AM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 10:41 AM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 10:41 AM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 10:41 AM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/19/12 10:41 AM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

Page 12 of 16

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-043-0312
Lab ID: 1203126-05
Collection Date: 03/13/12 02:05 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS							
		SW8260C					Analyst: KL
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 10:41 AM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
Chloroform	0.00125	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 10:41 AM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 10:41 AM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/19/12 10:41 AM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 10:41 AM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 10:41 AM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 10:41 AM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 10:41 AM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 10:41 AM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/19/12 10:41 AM
Surr: 1,2-Dichloroethane-d4	101	0	70-120	%REC	1		03/19/12 10:41 AM
Surr: 4-Bromofluorobenzene	103	0	75-120	%REC	1		03/19/12 10:41 AM
Surr: Dibromofluoromethane	102	0	85-115	%REC	1		03/19/12 10:41 AM
Surr: Toluene-d8	98.4	0	85-120	%REC	1		03/19/12 10:41 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-043-0312
Lab ID: 1203126-05
Collection Date: 03/13/12 02:05 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM-WATER							
Hexavalent Chromium	<0.00800	0.00800	0.0100		mg/L	1	03/14/12 11:22 AM
Trivalent Chromium	0.00778	0.00200	0.00600	N	mg/L	1	03/14/12 11:22 AM
PH							
pH	7.33	0	0		pH Units	1	03/14/12 10:18 AM
TOTAL ORGANIC CARBON							
Total Organic Carbon	1.31	0.300	1.00		mg/L	1	03/21/12 12:03 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits Page 14 of 16

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-TB-2-0312
Lab ID: 1203126-06
Collection Date: 03/13/12 02:05 PM
Matrix: TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS							
		SW8260C					Analyst: KL
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 06:51 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 06:51 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 06:51 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/19/12 06:51 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/19/12 06:51 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/19/12 06:51 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:51 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:51 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:51 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:51 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:51 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/19/12 06:51 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:51 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits Page 15 of 16

DHL Analytical

Date: 27-Mar-12

CLIENT: Zia Engineering & Environmental
Project: HELSFT Chromium Spill
Project No:
Lab Order: 1203126

Client Sample ID: HLSF-0143-HMW-TB-2-0312
Lab ID: 1203126-06
Collection Date: 03/13/12 02:05 PM
Matrix: TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS							
		SW8260C					Analyst: KL
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/19/12 06:51 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 06:51 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/19/12 06:51 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/19/12 06:51 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 06:51 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 06:51 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/19/12 06:51 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/19/12 06:51 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/19/12 06:51 PM
Surr: 1,2-Dichloroethane-d4	104	0	70-120	%REC	1	03/19/12 06:51 PM	
Surr: 4-Bromofluorobenzene	106	0	75-120	%REC	1	03/19/12 06:51 PM	
Surr: Dibromofluoromethane	102	0	85-115	%REC	1	03/19/12 06:51 PM	
Surr: Toluene-d8	99.6	0	85-120	%REC	1	03/19/12 06:51 PM	

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits Page 16 of 16

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT**RunID: GC15_120318A**

The QC data in batch 50939 applies to the following samples: 1203126-02E, 1203126-03E, 1203126-04E, 1203126-05E

Sample ID: LCS-50939	Batch ID: 50939	TestNo: M8015D	Units: mg/L						
SampType: LCS	Run ID: GC15_120318A	Analysis Date: 3/18/2012 9:46:54 AM	Prep Date: 3/14/2012						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit Qual
TPH-DRO C10-C28	1.16	0.100	1.250	0	92.6	50	114		
Surr: Isopropylbenzene	0.0532		0.1000		53.2	47	142		
Surr: Octacosane	0.0904		0.1000		90.4	51	124		
Sample ID: MB-50939	Batch ID: 50939	TestNo: M8015D	Units: mg/L						
SampType: MBLK	Run ID: GC15_120318A	Analysis Date: 3/18/2012 10:13:15 AM	Prep Date: 3/14/2012						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit Qual
TPH-DRO C10-C28	<0.0500	0.100							
Surr: Isopropylbenzene	0.0512		0.1000		51.2	47	142		
Surr: Octacosane	0.0914		0.1000		91.4	51	124		
Sample ID: 1203088-01HMS	Batch ID: 50939	TestNo: M8015D	Units: mg/L						
SampType: MS	Run ID: GC15_120318A	Analysis Date: 3/18/2012 10:30:49 AM	Prep Date: 3/14/2012						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit Qual
TPH-DRO C10-C28	1.23	0.100	1.250	0	98.1	50	114		
Surr: Isopropylbenzene	0.0575		0.1000		57.5	47	142		
Surr: Octacosane	0.0952		0.1000		95.2	51	124		
Sample ID: 1203088-01HMSD	Batch ID: 50939	TestNo: M8015D	Units: mg/L						
SampType: MSD	Run ID: GC15_120318A	Analysis Date: 3/18/2012 10:39:35 AM	Prep Date: 3/14/2012						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit Qual
TPH-DRO C10-C28	1.22	0.100	1.250	0	97.6	50	114	0.493	30
Surr: Isopropylbenzene	0.0578		0.1000		57.8	47	142	0	0
Surr: Octacosane	0.0925		0.1000		92.5	51	124	0	0
Sample ID: 1203126-05EMS	Batch ID: 50939	TestNo: M8015D	Units: mg/L						
SampType: MS	Run ID: GC15_120318A	Analysis Date: 3/18/2012 12:33:38 PM	Prep Date: 3/14/2012						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit Qual
TPH-DRO C10-C28	1.20	0.100	1.250	0.05520	91.8	50	114		
Surr: Isopropylbenzene	0.0578		0.1000		57.8	47	142		
Surr: Octacosane	0.0940		0.1000		94.0	51	124		

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 1 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_120318A

Sample ID: 1203126-05EMSD	Batch ID: 50939	TestNo:	M8015D	Units:	mg/L					
SampType: MSD	Run ID: GC15_120318A	Analysis Date: 3/18/2012 12:42:24 PM			Prep Date: 3/14/2012					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	1.20	0.100	1.250	0.05520	91.5	50	114	0.288	30	
Surr: Isopropylbenzene	0.0547		0.1000		54.7	47	142	0	0	
Surr: Octacosane	0.0890		0.1000		89.0	51	124	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 2 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_120318A

Sample ID: ICV-120318	Batch ID: R59651	TestNo: M8015D			Units:	mg/L				
SampType: ICV	Run ID: GC15_120318A	Analysis Date: 3/18/2012 9:34:23 AM			Prep Date:					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	564	0.100	500.0	0	113	80	120			
Surr: Isopropylbenzene	23.4		25.00		93.8	80	120			
Surr: Octacosane	26.1		25.00		104	80	120			

Sample ID: CCV1-120318	Batch ID: R59651	TestNo: M8015D			Units:	mg/L				
SampType: CCV	Run ID: GC15_120318A	Analysis Date: 3/18/2012 11:23:24 AM			Prep Date:					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	280	0.100	250.0	0	112	80	120			
Surr: Isopropylbenzene	12.1		12.50		96.6	80	120			
Surr: Octacosane	13.0		12.50		104	80	120			

Sample ID: CCV2-120318	Batch ID: R59651	TestNo: M8015D			Units:	mg/L				
SampType: CCV	Run ID: GC15_120318A	Analysis Date: 3/18/2012 1:08:43 PM			Prep Date:					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	280	0.100	250.0	0	112	80	120			
Surr: Isopropylbenzene	12.1		12.50		96.6	80	120			
Surr: Octacosane	13.0		12.50		104	80	120			

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 3 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_120323B

The QC data in batch 51062 applies to the following samples: 1203126-02C, 1203126-03C, 1203126-04C, 1203126-05C

Sample ID:	MB-51062	Batch ID:	51062	TestNo:	SW6020	Units:	mg/L				
SampType:	MBLK	Run ID:	ICP-MS3_120323B	Analysis Date:	3/23/2012 2:00:00 PM	Prep Date:	3/21/2012				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium		<0.00200	0.00600								
Sample ID:	LCS-51062	Batch ID:	51062	TestNo:	SW6020	Units:	mg/L				
SampType:	LCS	Run ID:	ICP-MS3_120323B	Analysis Date:	3/23/2012 2:06:00 PM	Prep Date:	3/21/2012				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium		0.196	0.00600	0.200	0	97.8	80	120			
Sample ID:	LCSD-51062	Batch ID:	51062	TestNo:	SW6020	Units:	mg/L				
SampType:	LCSD	Run ID:	ICP-MS3_120323B	Analysis Date:	3/23/2012 2:11:00 PM	Prep Date:	3/21/2012				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium		0.192	0.00600	0.200	0	95.8	80	120	2.12	15	
Sample ID:	1203126-05C SD	Batch ID:	51062	TestNo:	SW6020	Units:	mg/L				
SampType:	SD	Run ID:	ICP-MS3_120323B	Analysis Date:	3/23/2012 2:28:00 PM	Prep Date:	3/21/2012				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium		<0.0100	0.0300	0	0.00778				0	10	
Sample ID:	1203126-05C PDS	Batch ID:	51062	TestNo:	SW6020	Units:	mg/L				
SampType:	PDS	Run ID:	ICP-MS3_120323B	Analysis Date:	3/23/2012 3:30:00 PM	Prep Date:	3/21/2012				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium		0.187	0.00600	0.200	0.00778	89.8	75	125			
Sample ID:	1203126-05C MS	Batch ID:	51062	TestNo:	SW6020	Units:	mg/L				
SampType:	MS	Run ID:	ICP-MS3_120323B	Analysis Date:	3/23/2012 3:35:00 PM	Prep Date:	3/21/2012				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium		0.191	0.00600	0.200	0.00778	91.7	80	120			
Sample ID:	1203126-05C MSD	Batch ID:	51062	TestNo:	SW6020	Units:	mg/L				
SampType:	MSD	Run ID:	ICP-MS3_120323B	Analysis Date:	3/23/2012 3:41:00 PM	Prep Date:	3/21/2012				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium		0.193	0.00600	0.200	0.00778	92.5	80	120	0.833	15	

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 4 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_120323B

Sample ID: ICV1-120323	Batch ID: R59744	TestNo:	SW6020	Units:	mg/L					
SampType: ICV	Run ID: ICP-MS3_120323B	Analysis Date: 3/23/2012 11:20:00 AM		Prep Date:						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.106	0.00600	0.100	0	106	90	110			
Sample ID: CCV1-120323	Batch ID: R59744	TestNo:	SW6020	Units:	mg/L					
SampType: CCV	Run ID: ICP-MS3_120323B	Analysis Date: 3/23/2012 1:20:00 PM		Prep Date:						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.209	0.00600	0.200	0	105	90	110			
Sample ID: CCV2-120323	Batch ID: R59744	TestNo:	SW6020	Units:	mg/L					
SampType: CCV	Run ID: ICP-MS3_120323B	Analysis Date: 3/23/2012 3:46:00 PM		Prep Date:						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.217	0.00600	0.200	0	109	90	110			

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 5 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_120326A

Sample ID: ICV1-120326	Batch ID: R59760	TestNo:	SW6020	Units:	mg/L					
SampType: ICV	Run ID: ICP-MS3_120326A	Analysis Date: 3/26/2012 1:56:00 PM		Prep Date:						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.104	0.00600	0.100	0	104	90	110			
Sample ID: CCV1-120326	Batch ID: R59760	TestNo:	SW6020	Units:	mg/L					
SampType: CCV	Run ID: ICP-MS3_120326A	Analysis Date: 3/26/2012 4:17:00 PM		Prep Date:						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.203	0.00600	0.200	0	101	90	110			

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 6 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120319A

The QC data in batch 51020 applies to the following samples: 1203126-01A, 1203126-02A, 1203126-03A, 1203126-04A, 1203126-05A, 1203126-06A

Sample ID: LCS-51020	Batch ID: 51020	TestNo: SW8260C			Units: mg/L					
SampType: LCS	Run ID: GCMS7_120319A	Analysis Date: 3/19/2012 9:52:00 AM			Prep Date: 3/19/2012					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0225	0.00100	0.0232	0	97.1	80	130			
1,1,1-Trichloroethane	0.0225	0.00100	0.0232	0	97.1	65	130			
1,1,2,2-Tetrachloroethane	0.0253	0.00100	0.0232	0	109	65	130			
1,1,2-Trichloroethane	0.0212	0.00100	0.0232	0	91.4	75	125			
1,1-Dichloroethane	0.0222	0.00100	0.0232	0	95.6	70	135			
1,1-Dichloroethene	0.0231	0.00100	0.0232	0	99.7	70	130			
1,1-Dichloropropene	0.0231	0.00100	0.0232	0	99.6	75	130			
1,2,3-Trichlorobenzene	0.0244	0.00500	0.0232	0	105	55	140			
1,2,3-Trichloropropane	0.0252	0.00100	0.0232	0	109	75	125			
1,2,4-Trichlorobenzene	0.0237	0.00500	0.0232	0	102	65	135			
1,2,4-Trimethylbenzene	0.0235	0.00500	0.0232	0	101	75	130			
1,2-Dibromo-3-chloropropane	0.0238	0.0100	0.0232	0	103	50	130			
1,2-Dibromoethane	0.0228	0.00100	0.0232	0	98.4	80	120			
1,2-Dichlorobenzene	0.0222	0.00100	0.0232	0	95.8	70	120			
1,2-Dichloroethane	0.0222	0.00100	0.0232	0	95.5	70	130			
1,2-Dichloropropane	0.0205	0.00100	0.0232	0	88.4	75	125			
1,3,5-Trimethylbenzene	0.0230	0.00500	0.0232	0	99.4	75	130			
1,3-Dichlorobenzene	0.0226	0.00100	0.0232	0	97.2	75	125			
1,3-Dichloropropane	0.0230	0.00100	0.0232	0	99.0	75	125			
1,4-Dichloro-2-butene	0.0233	0.00200	0.0232	0	100	50	150			
1,4-Dichlorobenzene	0.0221	0.00100	0.0232	0	95.3	75	125			
2,2-Dichloropropane	0.0239	0.00100	0.0232	0	103	70	135			
2-Butanone	0.0281	0.0150	0.0232	0	121	30	150			
2-Chloroethylvinylether	0.0224	0.0150	0.0232	0	96.6	50	150			
2-Chlorotoluene	0.0227	0.00100	0.0232	0	97.8	75	125			
2-Hexanone	0.0265	0.0150	0.0232	0	114	55	130			
4-Chlorotoluene	0.0232	0.00100	0.0232	0	100	75	130			
4-Methyl-2-pentanone	0.0262	0.0150	0.0232	0	113	60	135			
Acetone	0.0316	0.0150	0.0232	0	136	40	140			
Acrylonitrile	0.0455	0.00300	0.0464	0	98.1	50	150			
Benzene	0.0220	0.00100	0.0232	0	94.6	80	120			
Bromobenzene	0.0220	0.00100	0.0232	0	94.7	75	125			
Bromochloromethane	0.0206	0.00100	0.0232	0	88.6	65	130			
Bromodichloromethane	0.0199	0.00100	0.0232	0	85.6	75	120			
Bromoform	0.0215	0.00100	0.0232	0	92.5	70	130			
Bromomethane	0.0232	0.00100	0.0232	0	100	30	145			
Carbon disulfide	0.0205	0.0150	0.0232	0	88.5	35	160			
Carbon tetrachloride	0.0224	0.00100	0.0232	0	96.3	65	140			
Chlorobenzene	0.0218	0.00100	0.0232	0	94.1	80	120			
Chloroethane	0.0216	0.00100	0.0232	0	93.1	60	135			

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120319A

Sample ID: LCS-51020	Batch ID: 51020	TestNo: SW8260C		Units:	mg/L					
SampType: LCS	Run ID: GCMS7_120319A	Analysis Date: 3/19/2012 9:52:00 AM					Prep Date: 3/19/2012			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloroform	0.0210	0.00100	0.0232	0	90.3	65	135			
Chloromethane	0.0213	0.00100	0.0232	0	91.9	40	125			
cis-1,2-Dichloroethene	0.0211	0.00100	0.0232	0	91.1	70	125			
cis-1,3-Dichloropropene	0.0206	0.00100	0.0232	0	88.8	70	130			
Dibromochloromethane	0.0217	0.00100	0.0232	0	93.6	60	135			
Dibromomethane	0.0199	0.00100	0.0232	0	85.6	75	125			
Dichlorodifluoromethane	0.0171	0.00100	0.0232	0	73.8	30	155			
Ethylbenzene	0.0218	0.00100	0.0232	0	94.1	75	125			
Iodomethane	0.0182	0.0150	0.0232	0	78.4	50	150			
Isopropylbenzene	0.0223	0.00100	0.0232	0	95.9	75	125			
m,p-Xylene	0.0445	0.00200	0.0464	0	96.0	75	130			
Methyl tert-butyl ether	0.0251	0.00100	0.0232	0	108	65	125			
Methylene chloride	0.0254	0.00250	0.0232	0	109	55	140			
n-Butylbenzene	0.0251	0.00100	0.0232	0	108	70	135			
n-Propylbenzene	0.0233	0.00100	0.0232	0	100	70	130			
o-Xylene	0.0220	0.00100	0.0232	0	94.7	80	120			
p-Isopropyltoluene	0.0232	0.00100	0.0232	0	100	75	130			
sec-Butylbenzene	0.0233	0.00100	0.0232	0	101	70	125			
Styrene	0.0207	0.00100	0.0232	0	89.1	65	135			
tert-Butylbenzene	0.0226	0.00100	0.0232	0	97.2	70	130			
Tetrachloroethene	0.0210	0.00200	0.0232	0	90.4	45	150			
Toluene	0.0200	0.00200	0.0232	0	86.1	75	120			
trans-1,2-Dichloroethene	0.0214	0.00100	0.0232	0	92.2	60	140			
trans-1,3-Dichloropropene	0.0204	0.00100	0.0232	0	87.8	55	140			
Trichloroethene	0.0192	0.00200	0.0232	0	82.9	70	125			
Trichlorofluoromethane	0.0208	0.00100	0.0232	0	89.4	60	145			
Vinyl chloride	0.0222	0.00100	0.0232	0	95.6	50	145			
Surr: 1,2-Dichloroethane-d4	206		200.0		103	70	120			
Surr: 4-Bromofluorobenzene	212		200.0		106	75	120			
Surr: Dibromofluoromethane	194		200.0		96.8	85	115			
Surr: Toluene-d8	200		200.0		100	85	120			

Sample ID: MB-51020	Batch ID: 51020	TestNo: SW8260C		Units:	mg/L					
SampType: MBLK	Run ID: GCMS7_120319A	Analysis Date: 3/19/2012 10:17:00 AM					Prep Date: 3/19/2012			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	<0.000200	0.00100								
1,1,1-Trichloroethane	<0.000200	0.00100								
1,1,2,2-Tetrachloroethane	<0.000200	0.00100								
1,1,2-Trichloroethane	<0.000200	0.00100								
1,1-Dichloroethane	<0.000200	0.00100								

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120319A

Sample ID: MB-51020	Batch ID: 51020	TestNo: SW8260C	Units: mg/L							
SampType: MBLK	Run ID: GCMS7_120319A	Analysis Date: 3/19/2012 10:17:00 AM Prep Date: 3/19/2012								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	<0.000200	0.00100								
1,1-Dichloropropene	<0.000200	0.00100								
1,2,3-Trichlorobenzene	<0.00150	0.00500								
1,2,3-Trichloropropane	<0.000300	0.00100								
1,2,4-Trichlorobenzene	<0.00150	0.00500								
1,2,4-Trimethylbenzene	<0.00150	0.00500								
1,2-Dibromo-3-chloropropane	<0.00300	0.0100								
1,2-Dibromoethane	<0.000200	0.00100								
1,2-Dichlorobenzene	<0.000300	0.00100								
1,2-Dichloroethane	<0.000300	0.00100								
1,2-Dichloropropane	<0.000200	0.00100								
1,3,5-Trimethylbenzene	<0.00150	0.00500								
1,3-Dichlorobenzene	<0.000300	0.00100								
1,3-Dichloropropane	<0.000200	0.00100								
1,4-Dichloro-2-butene	<0.00200	0.00200								
1,4-Dichlorobenzene	<0.000300	0.00100								
2,2-Dichloropropane	<0.000200	0.00100								
2-Butanone	<0.00500	0.0150								
2-Chloroethylvinylether	<0.00500	0.0150								
2-Chlorotoluene	<0.000300	0.00100								
2-Hexanone	<0.00500	0.0150								
4-Chlorotoluene	<0.000300	0.00100								
4-Methyl-2-pentanone	<0.00500	0.0150								
Acetone	<0.00500	0.0150								
Acrylonitrile	<0.00100	0.00300								
Benzene	<0.000200	0.00100								
Bromobenzene	<0.000200	0.00100								
Bromochloromethane	<0.000200	0.00100								
Bromodichloromethane	<0.000200	0.00100								
Bromoform	<0.000200	0.00100								
Bromomethane	<0.000300	0.00100								
Carbon disulfide	<0.00500	0.0150								
Carbon tetrachloride	<0.000200	0.00100								
Chlorobenzene	<0.000200	0.00100								
Chloroethane	<0.000300	0.00100								
Chloroform	<0.000300	0.00100								
Chloromethane	<0.000300	0.00100								
cis-1,2-Dichloroethene	<0.000200	0.00100								
cis-1,3-Dichloropropene	<0.000200	0.00100								
Dibromochloromethane	<0.000200	0.00100								
Dibromomethane	<0.000200	0.00100								

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 9 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120319A

Sample ID: MB-51020	Batch ID: 51020	TestNo: SW8260C	Units: mg/L							
SampType: MBLK	Run ID: GCMS7_120319A	Analysis Date: 3/19/2012 10:17:00 AM Prep Date: 3/19/2012								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	<0.000200	0.00100								
Ethylbenzene	<0.000300	0.00100								
Iodomethane	<0.00500	0.0150								
Isopropylbenzene	<0.000200	0.00100								
m,p-Xylene	<0.000600	0.00200								
Methyl tert-butyl ether	<0.000300	0.00100								
Methylene chloride	<0.00250	0.00250								
n-Butylbenzene	<0.000300	0.00100								
n-Propylbenzene	<0.000300	0.00100								
o-Xylene	<0.000300	0.00100								
p-Isopropyltoluene	<0.000300	0.00100								
sec-Butylbenzene	<0.000300	0.00100								
Styrene	<0.000200	0.00100								
tert-Butylbenzene	<0.000300	0.00100								
Tetrachloroethene	<0.000600	0.00200								
Toluene	<0.000600	0.00200								
trans-1,2-Dichloroethene	<0.000200	0.00100								
trans-1,3-Dichloropropene	<0.000200	0.00100								
Trichloroethene	<0.000600	0.00200								
Trichlorofluoromethane	<0.000200	0.00100								
Vinyl chloride	<0.000100	0.00100								
Surr: 1,2-Dichloroethane-d4	209	200.0		104	70	120				
Surr: 4-Bromofluorobenzene	209	200.0		104	75	120				
Surr: Dibromofluoromethane	195	200.0		97.6	85	115				
Surr: Toluene-d8	217	200.0		109	85	120				

Sample ID: 1203126-05AMS	Batch ID: 51020	TestNo: SW8260C	Units: mg/L							
SampType: MS	Run ID: GCMS7_120319A	Analysis Date: 3/19/2012 12:44:00 PM Prep Date: 3/19/2012								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0206	0.00100	0.0232	0	88.8	80	130			
1,1,1-Trichloroethane	0.0216	0.00100	0.0232	0	93.0	65	130			
1,1,2,2-Tetrachloroethane	0.0263	0.00100	0.0232	0	113	65	130			
1,1,2-Trichloroethane	0.0218	0.00100	0.0232	0	93.9	75	125			
1,1-Dichloroethane	0.0220	0.00100	0.0232	0	94.8	70	135			
1,1-Dichloroethene	0.0232	0.00100	0.0232	0	100	70	130			
1,1-Dichloropropene	0.0214	0.00100	0.0232	0	92.1	75	130			
1,2,3-Trichlorobenzene	0.0227	0.00500	0.0232	0	97.7	55	140			
1,2,3-Trichloropropane	0.0258	0.00100	0.0232	0	111	75	125			
1,2,4-Trichlorobenzene	0.0224	0.00500	0.0232	0	96.4	65	135			
1,2,4-Trimethylbenzene	0.0235	0.00500	0.0232	0	101	75	130			

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 10 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120319A

Sample ID: 1203126-05AMS	Batch ID: 51020	TestNo: SW8260C	Units: mg/L							
SampType: MS	Run ID: GCMS7_120319A	Analysis Date: 3/19/2012 12:44:00 PM		Prep Date: 3/19/2012						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	0.0221	0.0100	0.0232	0	95.3	50	130			
1,2-Dibromoethane	0.0213	0.00100	0.0232	0	91.7	80	120			
1,2-Dichlorobenzene	0.0220	0.00100	0.0232	0	94.9	70	120			
1,2-Dichloroethane	0.0224	0.00100	0.0232	0	96.6	70	130			
1,2-Dichloropropane	0.0218	0.00100	0.0232	0	94.1	75	125			
1,3,5-Trimethylbenzene	0.0244	0.00500	0.0232	0	105	75	130			
1,3-Dichlorobenzene	0.0218	0.00100	0.0232	0	93.8	75	125			
1,3-Dichloropropane	0.0217	0.00100	0.0232	0	93.7	75	125			
1,4-Dichloro-2-butene	0.0231	0.00200	0.0232	0	99.7	50	150			
1,4-Dichlorobenzene	0.0222	0.00100	0.0232	0	95.5	75	125			
2,2-Dichloropropane	0.0220	0.00100	0.0232	0	94.7	70	135			
2-Butanone	0.0223	0.0150	0.0232	0	96.2	30	150			
2-Chloroethylvinylether	<0.00500	0.0150	0.0232	0	0	50	150			S
2-Chlorotoluene	0.0248	0.00100	0.0232	0	107	75	125			
2-Hexanone	0.0248	0.0150	0.0232	0	107	55	130			
4-Chlorotoluene	0.0245	0.00100	0.0232	0	106	75	130			
4-Methyl-2-pentanone	0.0248	0.0150	0.0232	0	107	60	135			
Acetone	0.0257	0.0150	0.0232	0	111	40	140			
Acrylonitrile	0.0426	0.00300	0.0464	0	91.9	50	150			
Benzene	0.0218	0.00100	0.0232	0	93.8	80	120			
Bromobenzene	0.0234	0.00100	0.0232	0	101	75	125			
Bromochloromethane	0.0216	0.00100	0.0232	0	93.3	65	130			
Bromodichloromethane	0.0211	0.00100	0.0232	0	91.0	75	120			
Bromoform	0.0192	0.00100	0.0232	0	83.0	70	130			
Bromomethane	0.0232	0.00100	0.0232	0	100	30	145			
Carbon disulfide	0.0199	0.0150	0.0232	0	85.8	35	160			
Carbon tetrachloride	0.0212	0.00100	0.0232	0	91.2	65	140			
Chlorobenzene	0.0216	0.00100	0.0232	0	93.2	80	120			
Chloroethane	0.0230	0.00100	0.0232	0	99.2	60	135			
Chloroform	0.0232	0.00100	0.0232	0.00125	94.7	65	135			
Chloromethane	0.0210	0.00100	0.0232	0	90.5	40	125			
cis-1,2-Dichloroethene	0.0214	0.00100	0.0232	0	92.3	70	125			
cis-1,3-Dichloropropene	0.0207	0.00100	0.0232	0	89.3	70	130			
Dibromochloromethane	0.0197	0.00100	0.0232	0	84.9	60	135			
Dibromomethane	0.0222	0.00100	0.0232	0	95.9	75	125			
Dichlorodifluoromethane	0.0166	0.00100	0.0232	0	71.6	30	155			
Ethylbenzene	0.0215	0.00100	0.0232	0	92.5	75	125			
Iodomethane	0.0188	0.0150	0.0232	0	80.9	50	150			
Isopropylbenzene	0.0216	0.00100	0.0232	0	93.3	75	125			
m,p-Xylene	0.0437	0.00200	0.0464	0	94.2	75	130			
Methyl tert-butyl ether	0.0222	0.00100	0.0232	0	95.5	65	125			

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120319A

Sample ID: 1203126-05AMS	Batch ID: 51020	TestNo: SW8260C		Units:	mg/L					
SampType: MS	Run ID: GCMS7_120319A	Analysis Date: 3/19/2012 12:44:00 PM					Prep Date: 3/19/2012			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methylene chloride	0.0260	0.00250	0.0232	0	112	55	140			
n-Butylbenzene	0.0246	0.00100	0.0232	0	106	70	135			
n-Propylbenzene	0.0252	0.00100	0.0232	0	109	70	130			
o-Xylene	0.0214	0.00100	0.0232	0	92.2	80	120			
p-Isopropyltoluene	0.0226	0.00100	0.0232	0	97.6	75	130			
sec-Butylbenzene	0.0227	0.00100	0.0232	0	98.0	70	125			
Styrene	0.0175	0.00100	0.0232	0	75.6	65	135			
tert-Butylbenzene	0.0230	0.00100	0.0232	0	99.1	70	130			
Tetrachloroethene	0.0199	0.00200	0.0232	0	85.7	45	150			
Toluene	0.0214	0.00200	0.0232	0	92.1	75	120			
trans-1,2-Dichloroethene	0.0220	0.00100	0.0232	0	94.7	60	140			
trans-1,3-Dichloropropene	0.0208	0.00100	0.0232	0	89.4	55	140			
Trichloroethene	0.0199	0.00200	0.0232	0	85.6	70	125			
Trichlorofluoromethane	0.0225	0.00100	0.0232	0	97.1	60	145			
Vinyl chloride	0.0216	0.00100	0.0232	0	92.9	50	145			
Surr: 1,2-Dichloroethane-d4	210		200.0		105	70	120			
Surr: 4-Bromofluorobenzene	234		200.0		117	75	120			
Surr: Dibromofluoromethane	200		200.0		100	85	115			
Surr: Toluene-d8	200		200.0		100	85	120			

Sample ID: 1203126-05AMSD	Batch ID: 51020	TestNo: SW8260C		Units:	mg/L					
SampType: MSD	Run ID: GCMS7_120319A	Analysis Date: 3/19/2012 1:08:00 PM			Prep Date: 3/19/2012					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0212	0.00100	0.0232	0	91.4	80	130	2.82	30	
1,1,1-Trichloroethane	0.0221	0.00100	0.0232	0	95.3	65	130	2.43	30	
1,1,2,2-Tetrachloroethane	0.0238	0.00100	0.0232	0	102	65	130	9.99	30	
1,1,2-Trichloroethane	0.0220	0.00100	0.0232	0	95.0	75	125	1.23	30	
1,1-Dichloroethane	0.0253	0.00100	0.0232	0	109	70	135	14.0	30	
1,1-Dichloroethene	0.0258	0.00100	0.0232	0	111	70	130	10.6	30	
1,1-Dichloropropene	0.0221	0.00100	0.0232	0	95.1	75	130	3.18	30	
1,2,3-Trichlorobenzene	0.0239	0.00500	0.0232	0	103	55	140	5.20	30	
1,2,3-Trichloropropane	0.0232	0.00100	0.0232	0	99.8	75	125	10.9	30	
1,2,4-Trichlorobenzene	0.0235	0.00500	0.0232	0	101	65	135	4.93	30	
1,2,4-Trimethylbenzene	0.0234	0.00500	0.0232	0	101	75	130	0.640	30	
1,2-Dibromo-3-chloropropane	0.0214	0.0100	0.0232	0	92.4	50	130	3.08	30	
1,2-Dibromoethane	0.0214	0.00100	0.0232	0	92.2	80	120	0.516	30	
1,2-Dichlorobenzene	0.0221	0.00100	0.0232	0	95.3	70	120	0.408	30	
1,2-Dichloroethane	0.0225	0.00100	0.0232	0	97.0	70	130	0.445	30	
1,2-Dichloropropane	0.0224	0.00100	0.0232	0	96.6	75	125	2.67	30	
1,3,5-Trimethylbenzene	0.0229	0.00500	0.0232	0	98.6	75	130	6.64	30	

Qualifiers:	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

Page 12 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120319A

Sample ID: 1203126-05AMSD	Batch ID: 51020	TestNo: SW8260C		Units:	mg/L					
SampType: MSD	Run ID: GCMS7_120319A	Analysis Date: 3/19/2012 1:08:00 PM			Prep Date:	3/19/2012				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.0223	0.00100	0.0232	0	95.9	75	125	2.32	30	
1,3-Dichloropropane	0.0221	0.00100	0.0232	0	95.4	75	125	1.82	30	
1,4-Dichloro-2-butene	0.0207	0.00200	0.0232	0	89.3	50	150	10.9	30	
1,4-Dichlorobenzene	0.0224	0.00100	0.0232	0	96.7	75	125	1.26	30	
2,2-Dichloropropane	0.0237	0.00100	0.0232	0	102	70	135	7.49	30	
2-Butanone	0.0216	0.0150	0.0232	0	93.2	30	150	3.14	30	
2-Chloroethylvinylether	<0.00500	0.0150	0.0232	0	0	50	150	0	30	S
2-Chlorotoluene	0.0230	0.00100	0.0232	0	99.3	75	125	7.20	30	
2-Hexanone	0.0237	0.0150	0.0232	0	102	55	130	4.61	30	
4-Chlorotoluene	0.0228	0.00100	0.0232	0	98.3	75	130	7.11	30	
4-Methyl-2-pentanone	0.0240	0.0150	0.0232	0	103	60	135	3.49	30	
Acetone	0.0277	0.0150	0.0232	0	119	40	140	7.45	30	
Acrylonitrile	0.0460	0.00300	0.0464	0	99.2	50	150	7.60	30	
Benzene	0.0223	0.00100	0.0232	0	96.1	80	120	2.36	30	
Bromobenzene	0.0218	0.00100	0.0232	0	94.2	75	125	6.98	30	
Bromochloromethane	0.0237	0.00100	0.0232	0	102	65	130	8.83	30	
Bromodichloromethane	0.0213	0.00100	0.0232	0	91.9	75	120	0.943	30	
Bromoform	0.0195	0.00100	0.0232	0	84.1	70	130	1.29	30	
Bromomethane	0.0257	0.00100	0.0232	0	111	30	145	10.2	30	
Carbon disulfide	0.0224	0.0150	0.0232	0	96.4	35	160	11.7	30	
Carbon tetrachloride	0.0221	0.00100	0.0232	0	95.2	65	140	4.30	30	
Chlorobenzene	0.0220	0.00100	0.0232	0	94.7	80	120	1.65	30	
Chloroethane	0.0255	0.00100	0.0232	0	110	60	135	10.2	30	
Chloroform	0.0247	0.00100	0.0232	0.00125	101	65	135	6.34	30	
Chloromethane	0.0220	0.00100	0.0232	0	94.9	40	125	4.70	30	
cis-1,2-Dichloroethene	0.0241	0.00100	0.0232	0	104	70	125	11.8	30	
cis-1,3-Dichloropropene	0.0210	0.00100	0.0232	0	90.3	70	130	1.15	30	
Dibromochloromethane	0.0203	0.00100	0.0232	0	87.6	60	135	3.10	30	
Dibromomethane	0.0221	0.00100	0.0232	0	95.2	75	125	0.677	30	
Dichlorodifluoromethane	0.0182	0.00100	0.0232	0	78.5	30	155	9.25	30	
Ethylbenzene	0.0221	0.00100	0.0232	0	95.1	75	125	2.71	30	
Iodomethane	0.0219	0.0150	0.0232	0	94.6	50	150	15.6	30	
Isopropylbenzene	0.0231	0.00100	0.0232	0	99.4	75	125	6.31	30	
m,p-Xylene	0.0451	0.00200	0.0464	0	97.2	75	130	3.13	30	
Methyl tert-butyl ether	0.0238	0.00100	0.0232	0	102	65	125	7.06	30	
Methylene chloride	0.0288	0.00250	0.0232	0	124	55	140	10.3	30	
n-Butylbenzene	0.0249	0.00100	0.0232	0	107	70	135	1.29	30	
n-Propylbenzene	0.0234	0.00100	0.0232	0	101	70	130	7.45	30	
o-Xylene	0.0223	0.00100	0.0232	0	96.2	80	120	4.21	30	
p-Isopropyltoluene	0.0229	0.00100	0.0232	0	98.7	75	130	1.14	30	
sec-Butylbenzene	0.0234	0.00100	0.0232	0	101	70	125	2.99	30	

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 13 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120319A

Sample ID: 1203126-05AMSD	Batch ID: 51020	TestNo:	SW8260C	Units:	mg/L					
SampType: MSD	Run ID: GCMS7_120319A	Analysis Date: 3/19/2012 1:08:00 PM		Prep Date:	3/19/2012					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Styrene	0.0179	0.00100	0.0232	0	77.2	65	135	2.14	30	
tert-Butylbenzene	0.0228	0.00100	0.0232	0	98.3	70	130	0.786	30	
Tetrachloroethene	0.0207	0.00200	0.0232	0	89.4	45	150	4.19	30	
Toluene	0.0218	0.00200	0.0232	0	93.9	75	120	1.90	30	
trans-1,2-Dichloroethene	0.0243	0.00100	0.0232	0	105	60	140	9.86	30	
trans-1,3-Dichloropropene	0.0210	0.00100	0.0232	0	90.4	55	140	1.05	30	
Trichloroethene	0.0208	0.00200	0.0232	0	89.7	70	125	4.67	30	
Trichlorofluoromethane	0.0245	0.00100	0.0232	0	106	60	145	8.34	30	
Vinyl chloride	0.0225	0.00100	0.0232	0	97.1	50	145	4.40	30	
Surr: 1,2-Dichloroethane-d4	206		200.0		103	70	120	0	0	
Surr: 4-Bromofluorobenzene	212		200.0		106	75	120	0	0	
Surr: Dibromofluoromethane	201		200.0		101	85	115	0	0	
Surr: Toluene-d8	198		200.0		98.9	85	120	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 14 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120319A

Sample ID: ICV-120319	Batch ID: R59655	TestNo: SW8260C		Units:	mg/L					
SampType: ICV	Run ID: GCMS7_120319A	Analysis Date: 3/19/2012 9:03:00 AM			Prep Date:					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0468	0.00100	0.0464	0	101	80	120			
1,1,1-Trichloroethane	0.0444	0.00100	0.0464	0	95.6	80	120			
1,1,2,2-Tetrachloroethane	0.0495	0.00100	0.0464	0	107	80	120			
1,1,2-Trichloroethane	0.0452	0.00100	0.0464	0	97.3	80	120			
1,1-Dichloroethane	0.0472	0.00100	0.0464	0	102	80	120			
1,1-Dichloroethene	0.0496	0.00100	0.0464	0	107	80	120			
1,1-Dichloropropene	0.0446	0.00100	0.0464	0	96.2	80	120			
1,2,3-Trichlorobenzene	0.0548	0.00500	0.0464	0	118	80	120			
1,2,3-Trichloropropane	0.0485	0.00100	0.0464	0	104	80	120			
1,2,4-Trichlorobenzene	0.0546	0.00500	0.0464	0	118	80	120			
1,2,4-Trimethylbenzene	0.0465	0.00500	0.0464	0	100	80	120			
1,2-Dibromo-3-chloropropane	0.0570	0.0100	0.0464	0	123	80	120			S
1,2-Dibromoethane	0.0463	0.00100	0.0464	0	99.7	80	120			
1,2-Dichlorobenzene	0.0454	0.00100	0.0464	0	97.8	80	120			
1,2-Dichloroethane	0.0432	0.00100	0.0464	0	93.1	80	120			
1,2-Dichloropropane	0.0447	0.00100	0.0464	0	96.3	80	120			
1,3,5-Trimethylbenzene	0.0456	0.00500	0.0464	0	98.2	80	120			
1,3-Dichlorobenzene	0.0438	0.00100	0.0464	0	94.4	80	120			
1,3-Dichloropropane	0.0464	0.00100	0.0464	0	100	80	120			
1,4-Dichloro-2-butene	0.0475	0.00200	0.0464	0	102	80	120			
1,4-Dichlorobenzene	0.0433	0.00100	0.0464	0	93.3	80	120			
2,2-Dichloropropane	0.0539	0.00100	0.0464	0	116	80	120			
2-Butanone	0.0492	0.0150	0.0464	0	106	80	120			
2-Chloroethylvinylether	0.0474	0.0150	0.0464	0	102	80	120			
2-Chlorotoluene	0.0448	0.00100	0.0464	0	96.6	80	120			
2-Hexanone	0.0506	0.0150	0.0464	0	109	80	120			
4-Chlorotoluene	0.0450	0.00100	0.0464	0	96.9	80	120			
4-Methyl-2-pentanone	0.0505	0.0150	0.0464	0	109	80	120			
Acetone	0.0582	0.0150	0.0464	0	125	80	120			S
Acrylonitrile	0.0928	0.00300	0.0928	0	100	60	140			
Benzene	0.0434	0.00100	0.0464	0	93.6	80	120			
Bromobenzene	0.0433	0.00100	0.0464	0	93.3	80	120			
Bromochloromethane	0.0422	0.00100	0.0464	0	91.0	80	120			
Bromodichloromethane	0.0450	0.00100	0.0464	0	97.0	80	120			
Bromoform	0.0478	0.00100	0.0464	0	103	80	120			
Bromomethane	0.0406	0.00100	0.0464	0	87.5	80	120			
Carbon disulfide	0.0437	0.0150	0.0464	0	94.1	80	120			
Carbon tetrachloride	0.0463	0.00100	0.0464	0	99.7	80	120			
Chlorobenzene	0.0428	0.00100	0.0464	0	92.3	80	120			
Chloroethane	0.0424	0.00100	0.0464	0	91.4	80	120			
Chloroform	0.0419	0.00100	0.0464	0	90.4	80	120			

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 15 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120319A

Sample ID: ICV-120319	Batch ID: R59655	TestNo: SW8260C	Units: mg/L							
SampType: ICV	Run ID: GCMS7_120319A	Analysis Date: 3/19/2012 9:03:00 AM								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloromethane	0.0456	0.00100	0.0464	0	98.4	80	120			
cis-1,2-Dichloroethene	0.0454	0.00100	0.0464	0	97.9	80	120			
cis-1,3-Dichloropropene	0.0458	0.00100	0.0464	0	98.6	80	120			
Dibromochloromethane	0.0468	0.00100	0.0464	0	101	80	120			
Dibromomethane	0.0428	0.00100	0.0464	0	92.2	80	120			
Dichlorodifluoromethane	0.0393	0.00100	0.0464	0	84.8	80	120			
Ethylbenzene	0.0429	0.00100	0.0464	0	92.5	80	120			
Iodomethane	0.0389	0.0150	0.0464	0	83.9	80	120			
Isopropylbenzene	0.0434	0.00100	0.0464	0	93.6	80	120			
m,p-Xylene	0.0867	0.00200	0.0928	0	93.4	80	120			
Methyl tert-butyl ether	0.0539	0.00100	0.0464	0	116	80	120			
Methylene chloride	0.0533	0.00250	0.0464	0	115	80	120			
n-Butylbenzene	0.0503	0.00100	0.0464	0	108	80	120			
n-Propylbenzene	0.0454	0.00100	0.0464	0	97.8	80	120			
o-Xylene	0.0435	0.00100	0.0464	0	93.8	80	120			
p-Isopropyltoluene	0.0453	0.00100	0.0464	0	97.6	80	120			
sec-Butylbenzene	0.0459	0.00100	0.0464	0	99.0	80	120			
Styrene	0.0413	0.00100	0.0464	0	89.0	80	120			
tert-Butylbenzene	0.0448	0.00100	0.0464	0	96.5	80	120			
Tetrachloroethene	0.0422	0.00200	0.0464	0	90.9	80	120			
Toluene	0.0417	0.00200	0.0464	0	89.9	80	120			
trans-1,2-Dichloroethene	0.0468	0.00100	0.0464	0	101	80	120			
trans-1,3-Dichloropropene	0.0463	0.00100	0.0464	0	99.8	80	120			
Trichloroethene	0.0418	0.00200	0.0464	0	90.2	80	120			
Trichlorofluoromethane	0.0413	0.00100	0.0464	0	89.0	80	120			
Vinyl chloride	0.0485	0.00100	0.0464	0	104	80	120			
Surr: 1,2-Dichloroethane-d4	195		200.0		97.7	70	120			
Surr: 4-Bromofluorobenzene	209		200.0		105	75	120			
Surr: Dibromofluoromethane	190		200.0		94.9	85	115			
Surr: Toluene-d8	203		200.0		101	85	120			

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 16 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_120314A

The QC data in batch 50947 applies to the following samples: 1203126-02D, 1203126-03D, 1203126-04D, 1203126-05D

Sample ID: 1203126-05D DUP	Batch ID: 50947	TestNo: M4500-H+ B	Units: pH Units
SampType: DUP	Run ID: TITRATOR_120314A	Analysis Date: 3/14/2012 10:21:00 AM	Prep Date: 3/14/2012
<hr/>			
Analyte	Result	RL	SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

pH 7.38 0 0 7.330 0.680 5

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 17 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_120314A

Sample ID: ICV-120314	Batch ID: R59568	TestNo: M4500-H+ B	Units: pH Units							
SampType: ICV	Run ID: TITRATOR_120314A	Analysis Date: 3/14/2012 9:25:00 AM	Prep Date: 3/14/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	10.0	0	10.00	0	100	99	101			
Sample ID: CCV1-120314	Batch ID: R59568	TestNo: M4500-H+ B	Units: pH Units							
SampType: CCV	Run ID: TITRATOR_120314A	Analysis Date: 3/14/2012 10:15:00 AM	Prep Date: 3/14/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.00	0	7.000	0	100	97.1	102.9			
Sample ID: CCV2-120314	Batch ID: R59568	TestNo: M4500-H+ B	Units: pH Units							
SampType: CCV	Run ID: TITRATOR_120314A	Analysis Date: 3/14/2012 10:22:00 AM	Prep Date: 3/14/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.00	0	7.000	0	100	97.1	102.9			

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 18 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: TOC_120321A

The QC data in batch 51063 applies to the following samples: 1203126-02B, 1203126-03B, 1203126-04B, 1203126-05B

Sample ID: LCS-51063	Batch ID: 51063	TestNo: M5310C	Units: mg/L								
SampType: LCS	Run ID: TOC_120321A	Analysis Date: 3/21/2012 10:06:00 AM	Prep Date: 3/21/2012								
Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual											
Total Organic Carbon	9.12	1.00	10.00	0	91.2	80	120				
Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual											
Total Organic Carbon	<0.300	1.00									
Sample ID: MB-51063	Batch ID: 51063	TestNo: M5310C	Units: mg/L								
SampType: MLBK	Run ID: TOC_120321A	Analysis Date: 3/21/2012 10:30:00 AM	Prep Date: 3/21/2012								
Total Organic Carbon	11.5	1.00	10.00	1.306	102	80	120				
Sample ID: 1203126-05B MS	Batch ID: 51063	TestNo: M5310C	Units: mg/L								
SampType: MS	Run ID: TOC_120321A	Analysis Date: 3/21/2012 12:23:00 PM	Prep Date: 3/21/2012								
Total Organic Carbon	11.5	1.00	10.00	1.306	102	80	120	0.530	15		
Sample ID: 1203126-05B MSD	Batch ID: 51063	TestNo: M5310C	Units: mg/L								
SampType: MSD	Run ID: TOC_120321A	Analysis Date: 3/21/2012 12:44:00 PM	Prep Date: 3/21/2012								
Total Organic Carbon	11.5	1.00	10.00	1.306	102	80	120				

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 19 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: TOC_120321A

Sample ID: ICV-120321	Batch ID: R59711	TestNo:	M5310C	Units:	mg/L					
SampType: ICV	Run ID: TOC_120321A	Analysis Date: 3/21/2012 9:45:00 AM		Prep Date:	3/21/2012					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	14.9	1.00	15.00	0	99.5	90	110			
Sample ID: CCV-120321	Batch ID: R59711	TestNo:	M5310C	Units:	mg/L					
SampType: CCV	Run ID: TOC_120321A	Analysis Date: 3/21/2012 3:15:00 PM		Prep Date:	3/21/2012					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	9.08	1.00	10.00	0	90.8	80	120			

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 20 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_120314A

The QC data in batch 50943 applies to the following samples: 1203126-02D, 1203126-03D, 1203126-04D, 1203126-05D

Sample ID: MB-50943	Batch ID: 50943	TestNo: M3500-Cr D	Units: mg/L							
SampType: MBLK	Run ID: UV/VIS_2_120314A	Analysis Date: 3/14/2012 11:22:00 AM	Prep Date: 3/14/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	<0.00800	0.0100								N
Trivalent Chromium	<0.0100	0.0100								
Sample ID: LCS-50943	Batch ID: 50943	TestNo: M3500-Cr D	Units: mg/L							
SampType: LCS	Run ID: UV/VIS_2_120314A	Analysis Date: 3/14/2012 11:22:00 AM	Prep Date: 3/14/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.0981	0.0100	0.100	0	98.1	85	115			
Sample ID: LCSD-50943	Batch ID: 50943	TestNo: M3500-Cr D	Units: mg/L							
SampType: LCSD	Run ID: UV/VIS_2_120314A	Analysis Date: 3/14/2012 11:22:00 AM	Prep Date: 3/14/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.102	0.0100	0.100	0	102	85	115	4.32	15	
Sample ID: 1203126-05D MS	Batch ID: 50943	TestNo: M3500-Cr D	Units: mg/L							
SampType: MS	Run ID: UV/VIS_2_120314A	Analysis Date: 3/14/2012 11:22:00 AM	Prep Date: 3/14/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.107	0.0100	0.100	0	107	85	115			
Sample ID: 1203126-05D MSD	Batch ID: 50943	TestNo: M3500-Cr D	Units: mg/L							
SampType: MSD	Run ID: UV/VIS_2_120314A	Analysis Date: 3/14/2012 11:22:00 AM	Prep Date: 3/14/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.110	0.0100	0.100	0	110	85	115	2.63	15	

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 21 of 22

CLIENT: Zia Engineering & Environmental
Work Order: 1203126
Project: HELSFT Chromium Spill

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_120314A

Sample ID: ICV-120314	Batch ID: R59569	TestNo:	M3500-Cr D	Units:	mg/L					
SampType: ICV	Run ID: UV/VIS_2_120314A	Analysis Date: 3/14/2012 11:22:00 AM		Prep Date:						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.0950	0.0100	0.100	0	95.0	90	110			
Trivalent Chromium	<0.0100	0.0100	0							N

Sample ID: CCV-120314	Batch ID: R59569	TestNo:	M3500-Cr D	Units:	mg/L					
SampType: CCV	Run ID: UV/VIS_2_120314A	Analysis Date: 3/14/2012 11:22:00 AM		Prep Date:						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.198	0.0100	0.200	0	98.9	90	110			
Trivalent Chromium	<0.0100	0.0100	0							N

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 22 of 22

Lab Order: 1203126
Client: Zia Engineering & Environmental
Project: HELSFT Chromium Spill

Sequence Report**Run ID: GC15_120318A**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-120318	-----	M8015D	R59651	1	3/18/2012 9:34:23 AM		A
LCS-50939	-----	M8015D	50939	1	3/18/2012 9:46:54 AM	3/14/2012 9:24:50 AM	A
MB-50939	-----	M8015D	50939	1	3/18/2012 10:13:15 AM	3/14/2012 9:24:50 AM	A
1203088-01HMS	-----	M8015D	50939	1	3/18/2012 10:30:49 AM	3/14/2012 9:24:50 AM	A
1203088-01HMSD	-----	M8015D	50939	1	3/18/2012 10:39:35 AM	3/14/2012 9:24:50 AM	A
CCV1-120318	-----	M8015D	R59651	1	3/18/2012 11:23:24 AM		A
1203126-02E	HLSF-0143-HMW-041-0312	M8015D	50939	1	3/18/2012 11:58:29 AM	3/14/2012 11:39:00 AM	A
1203126-03E	HLSF-0143-HMW-040-0312	M8015D	50939	1	3/18/2012 12:07:16 PM	3/14/2012 11:39:00 AM	A
1203126-04E	HLSF-0143-HMW-011-0312	M8015D	50939	1	3/18/2012 12:16:04 PM	3/14/2012 11:39:00 AM	A
1203126-05E	HLSF-0143-HMW-043-0312	M8015D	50939	1	3/18/2012 12:24:51 PM	3/14/2012 11:39:00 AM	A
1203126-05EMS	HLSF-0143-HMW-043-0312MS	M8015D	50939	1	3/18/2012 12:33:38 PM	3/14/2012 11:39:00 AM	A
1203126-05EMSD	HLSF-0143-HMW-043-	M8015D	50939	1	3/18/2012 12:42:24 PM	3/14/2012 11:39:00 AM	A
CCV2-120318	-----	M8015D	R59651	1	3/18/2012 1:08:43 PM		A

Run ID: GCMS7_120319A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-120319	-----	SW8260C	R59655	1	3/19/2012 9:03:00 AM		A
LCS-51020	-----	SW8260C	51020	1	3/19/2012 9:52:00 AM	3/19/2012 9:09:50 AM	A
MB-51020	-----	SW8260C	51020	1	3/19/2012 10:17:00 AM	3/19/2012 9:09:50 AM	A
1203126-05A	HLSF-0143-HMW-043-0312	SW8260C	51020	1	3/19/2012 10:41:00 AM	3/19/2012 9:09:50 AM	A
1203126-05AMS	HLSF-0143-HMW-043-0312MS	SW8260C	51020	1	3/19/2012 12:44:00 PM	3/19/2012 9:09:50 AM	A
1203126-05AMSD	HLSF-0143-HMW-043-	SW8260C	51020	1	3/19/2012 1:08:00 PM	3/19/2012 9:09:50 AM	A
1203126-01A	HLSF-0143-HMW-TB-1-0312	SW8260C	51020	1	3/19/2012 5:13:00 PM	3/19/2012 9:09:50 AM	T
1203126-02A	HLSF-0143-HMW-041-0312	SW8260C	51020	1	3/19/2012 5:37:00 PM	3/19/2012 9:09:50 AM	A
1203126-03A	HLSF-0143-HMW-040-0312	SW8260C	51020	1	3/19/2012 6:02:00 PM	3/19/2012 9:09:50 AM	A
1203126-04A	HLSF-0143-HMW-011-0312	SW8260C	51020	1	3/19/2012 6:27:00 PM	3/19/2012 9:09:50 AM	A
1203126-06A	HLSF-0143-HMW-TB-2-0312	SW8260C	51020	1	3/19/2012 6:51:00 PM	3/19/2012 9:09:50 AM	T

Lab Order: 1203126
Client: Zia Engineering & Environmental
Project: HELSFT Chromium Spill

Sequence Report**Run ID: ICP-MS3_120323B**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
BLANK STD 1	-----	SW6020	R59744	1	3/23/2012 10:13:00 AM		A
1/20 ppb STD.	-----	SW6020	R59744	1	3/23/2012 10:19:00 AM		A
10/200 ppb STD.	-----	SW6020	R59744	1	3/23/2012 10:25:00 AM		A
250/5000 ppb STD.	-----	SW6020	R59744	1	3/23/2012 10:30:00 AM		A
500/10000 ppb STD.	-----	SW6020	R59744	1	3/23/2012 10:36:00 AM		A
2000/25000 ppb ST	-----	SW6020	R59744	1	3/23/2012 10:41:00 AM		A
ICSA-120323	-----	SW6020	R59744	1	3/23/2012 10:58:00 AM		A
ICSA-B-120323	-----	SW6020	R59744	1	3/23/2012 11:03:00 AM		A
ICV1-120323	-----	SW6020	R59744	1	3/23/2012 11:20:00 AM		A
ICB1-120323	-----	SW6020	R59744	1	3/23/2012 11:39:00 AM		A
CCV1-120323	-----	SW6020	R59744	1	3/23/2012 1:20:00 PM		A
CCB1-120323	-----	SW6020	R59744	1	3/23/2012 1:54:00 PM		A
MB-51062	-----	SW6020	51062	1	3/23/2012 2:00:00 PM	3/21/2012 8:48:48 AM	A
LCS-51062	-----	SW6020	51062	1	3/23/2012 2:06:00 PM	3/21/2012 8:48:48 AM	A
LCSD-51062	-----	SW6020	51062	1	3/23/2012 2:11:00 PM	3/21/2012 8:48:48 AM	A
1203126-05C	HLSF-0143-HMW-043-0312	SW6020	51062	1	3/23/2012 2:23:00 PM	3/21/2012 8:48:48 AM	A
1203126-05C SD	HLSF-0143-HMW-043-0312	SW6020	51062	5	3/23/2012 2:28:00 PM	3/21/2012 8:48:48 AM	A
1203126-02C	HLSF-0143-HMW-041-0312	SW6020	51062	1	3/23/2012 2:34:00 PM	3/21/2012 8:48:48 AM	A
1203126-04C	HLSF-0143-HMW-011-0312	SW6020	51062	1	3/23/2012 2:45:00 PM	3/21/2012 8:48:48 AM	A
1203126-03C	HLSF-0143-HMW-040-0312	SW6020	51062	1	3/23/2012 3:24:00 PM	3/21/2012 8:48:48 AM	A
1203126-05C PDS	HLSF-0143-HMW-043-0312	SW6020	51062	1	3/23/2012 3:30:00 PM	3/21/2012 8:48:48 AM	A
1203126-05C MS	HLSF-0143-HMW-043-0312MS	SW6020	51062	1	3/23/2012 3:35:00 PM	3/21/2012 8:48:48 AM	A
1203126-05C MSD	HLSF-0143-HMW-043-	SW6020	51062	1	3/23/2012 3:41:00 PM	3/21/2012 8:48:48 AM	A
CCV2-120323	-----	SW6020	R59744	1	3/23/2012 3:46:00 PM		A
CCB2-120323	-----	SW6020	R59744	1	3/23/2012 4:12:00 PM		A

Lab Order: 1203126
Client: Zia Engineering & Environmental
Project: HELSFT Chromium Spill

Sequence Report

Run ID: ICP-MS3_120326A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
BLANK STD 1	-----	SW6020	R59760	1	3/26/2012 12:23:00 PM		A
1/20 ppb STD.	-----	SW6020	R59760	1	3/26/2012 12:29:00 PM		A
10/200 ppb STD.	-----	SW6020	R59760	1	3/26/2012 12:35:00 PM		A
250/5000 ppb STD.	-----	SW6020	R59760	1	3/26/2012 12:40:00 PM		A
500/10000 ppb STD.	-----	SW6020	R59760	1	3/26/2012 12:46:00 PM		A
2000/25000 ppb ST	-----	SW6020	R59760	1	3/26/2012 12:52:00 PM		A
ICSA-120326	-----	SW6020	R59760	1	3/26/2012 1:33:00 PM		A
ICSA-B-120326	-----	SW6020	R59760	1	3/26/2012 1:39:00 PM		A
ICV1-120326	-----	SW6020	R59760	1	3/26/2012 1:56:00 PM		A
ICB1-120326	-----	SW6020	R59760	1	3/26/2012 2:13:00 PM		A
1203126-03C	HLSF-0143-HMW-040-0312	SW6020	51062	1	3/26/2012 3:05:00 PM	3/21/2012 8:48:48 AM	A
CCV1-120326	-----	SW6020	R59760	1	3/26/2012 4:17:00 PM		A
CCB1-120326	-----	SW6020	R59760	1	3/26/2012 4:41:00 PM		A

Run ID: TITRATOR_120314A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV2-120314	-----	M4500-H+ B	R59568	1	3/14/2012 9:22:00 AM	3/14/2012 9:22:00 AM	A
ICV1-120314	-----	M4500-H+ B	R59568	1	3/14/2012 9:23:00 AM	3/14/2012 9:23:00 AM	A
ICV-120314	-----	M4500-H+ B	R59568	1	3/14/2012 9:25:00 AM	3/14/2012 9:25:00 AM	A
1203126-02D	HLSF-0143-HMW-041-0312	M4500-H+ B	50947	1	3/14/2012 10:09:00 AM	3/14/2012 9:30:00 AM	A
1203126-03D	HLSF-0143-HMW-040-0312	M4500-H+ B	50947	1	3/14/2012 10:12:00 AM	3/14/2012 9:30:00 AM	A
1203126-04D	HLSF-0143-HMW-011-0312	M4500-H+ B	50947	1	3/14/2012 10:14:00 AM	3/14/2012 9:30:00 AM	A
CCV1-120314	-----	M4500-H+ B	R59568	1	3/14/2012 10:15:00 AM	3/14/2012 10:15:00 AM	A
1203126-05D	HLSF-0143-HMW-043-0312	M4500-H+ B	50947	1	3/14/2012 10:18:00 AM	3/14/2012 9:30:00 AM	A
1203126-05D DUP	HLSF-0143-HMW-043-0312PD9	M4500-H+ B	50947	1	3/14/2012 10:21:00 AM	3/14/2012 9:30:00 AM	A
CCV2-120314	-----	M4500-H+ B	R59568	1	3/14/2012 10:22:00 AM	3/14/2012 10:22:00 AM	A

Run ID: TOC_120321A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-120321	-----	M5310C	R59711	1	3/21/2012 9:45:00 AM	3/21/2012 8:30:00 AM	A
LCS-51063	-----	M5310C	51063	1	3/21/2012 10:06:00 AM	3/21/2012 8:30:00 AM	A
MB-51063	-----	M5310C	51063	1	3/21/2012 10:30:00 AM	3/21/2012 8:30:00 AM	A
1203126-02B	HLSF-0143-HMW-041-0312	M5310C	51063	1	3/21/2012 10:56:00 AM	3/21/2012 8:30:00 AM	A
1203126-03B	HLSF-0143-HMW-040-0312	M5310C	51063	1	3/21/2012 11:19:00 AM	3/21/2012 8:30:00 AM	A
1203126-04B	HLSF-0143-HMW-011-0312	M5310C	51063	1	3/21/2012 11:43:00 AM	3/21/2012 8:30:00 AM	A
1203126-05B	HLSF-0143-HMW-043-0312	M5310C	51063	1	3/21/2012 12:03:00 PM	3/21/2012 8:30:00 AM	A
1203126-05B MS	HLSF-0143-HMW-043-0312MS	M5310C	51063	1	3/21/2012 12:23:00 PM	3/21/2012 8:30:00 AM	A
1203126-05B MSD	HLSF-0143-HMW-043-	M5310C	51063	1	3/21/2012 12:44:00 PM	3/21/2012 8:30:00 AM	A
CCV-120321	-----	M5310C	R59711	1	3/21/2012 3:15:00 PM	3/21/2012 8:30:00 AM	A

Lab Order: 1203126
Client: Zia Engineering & Environmental
Project: HELSFT Chromium Spill

Sequence Report**Run ID: UV/VIS_2_120314A**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-120314	-----	M3500-Cr D	R59569	1	3/14/2012 11:22:00 AM		A
MB-50943	-----	M3500-Cr D	50943	1	3/14/2012 11:22:00 AM	3/14/2012 10:43:42 AM	A
LCS-50943	-----	M3500-Cr D	50943	1	3/14/2012 11:22:00 AM	3/14/2012 10:43:42 AM	A
LCSD-50943	-----	M3500-Cr D	50943	1	3/14/2012 11:22:00 AM	3/14/2012 10:43:42 AM	A
1203126-05D	HLSF-0143-HMW-043-0312	M3500-Cr D	50943	1	3/14/2012 11:22:00 AM	3/14/2012 10:43:42 AM	A
1203126-05D MS	HLSF-0143-HMW-043-0312MS	M3500-Cr D	50943	1	3/14/2012 11:22:00 AM	3/14/2012 10:43:42 AM	A
1203126-05D MSD	HLSF-0143-HMW-043-	M3500-Cr D	50943	1	3/14/2012 11:22:00 AM	3/14/2012 10:43:42 AM	A
1203126-02D	HLSF-0143-HMW-041-0312	M3500-Cr D	50943	1	3/14/2012 11:22:00 AM	3/14/2012 10:43:42 AM	A
1203126-03D	HLSF-0143-HMW-040-0312	M3500-Cr D	50943	1	3/14/2012 11:22:00 AM	3/14/2012 10:43:42 AM	A
1203126-04D	HLSF-0143-HMW-011-0312	M3500-Cr D	50943	1	3/14/2012 11:22:00 AM	3/14/2012 10:43:42 AM	A
CCV-120314	-----	M3500-Cr D	R59569	1	3/14/2012 11:22:00 AM		A

Manual Integrations Tracking Form - DoD QSM 4.2 Requirement

Instrument ID: GCMS#7

ICAL: GCMS7_120117W.CAL

Data Folder: GCMS7_120319A

<u>Sample ID</u>	<u>Analyte #1</u>	<u>Analyte #2</u>	<u>Analyte #3</u>	<u>Analyte #4</u>
ICAL, ICV, and CCV QC and Field Samples	Identification & Reason	Identification & Reason	Identification & Reason	Identification & Reason
ICV-120319	Bromomethane – did not integrate entire peak.	Chloroethane – did not integrate entire peak.		
LCS-51020	Bromomethane – did not integrate entire peak.	Chloroethane – did not integrate entire peak.		
1203126-05AMS	Bromomethane – did not integrate entire peak.	Chloroethane – did not integrate entire peak.		
1203126-05AMSD	Bromomethane – did not integrate entire peak.			

*Manually Integrated = MI

Karyn Lane
Analyst

3-20-12
Date

Editha Lane-Jones
2nd Level Review

3/22/2012

Date